

CLAIMS

What is claimed is:

- 5 1. A wireless communication method for secure transmission of data
between mobile computing devices, comprising the steps of:
- a) transmitting a line of sight beam from a first device to a second device to
mutually identify the first device and the second device out of a plurality of
devices;
- 10 b) establishing an RF communications link between the identified first
device and the identified second device; and
- c) performing the data transfer between the first device and the second
device.
- 15 2. The method of Claim 1 wherein at least one of the first and second
mobile computing devices is a PID (personal information device).
3. The method of Claim 1 wherein at least one of the first and second
mobile computing devices is a cellular telephone.
- 20 4. The method of Claim 1 wherein the RF communications link is a secure
RF communications link recognizable only by the first and second devices output
of the plurality of devices.
- 25 5. The method of Claim 1 wherein the RF communications link is
compatible with a version of the Bluetooth specification.

6. The method of Claim 1 further including the step of using the line of sight beam to select a secure transmission method for the RF communications link.

5 7. The method of 6 wherein the secure transmission method is an encryption method for the RF communications link.

8. The method of Claim 1 wherein the line of sight beam is an IR communications beam.

10 9. The method of Claim 7 further including the step of presenting a confirmation of the data transfer to the plurality of mobile computing devices to the user.

15 10. The method of Claim 1 further including the steps of:
presenting a menu to allow a selection for enabling a wireless RF communications link for performing the data transfer or enabling a wireless IR communications link for performing the data transfer; and
performing the data transfer using the RF communications link or the IR
20 communications link in accordance with the selection.

11. A system for implementing secure wireless transmission of data between mobile computing devices, comprising:

25 a first mobile computing device having an IR communications port and an RF communications port;

a second mobile computing device having an IR communications port and an RF communications port;

the first mobile computing device configured to transmit and RF beam to the second mobile computing device via their respective IR communications ports to mutually identify the first mobile computing device and second mobile computing device out of a plurality of devices; and

5 the first and second mobile computing devices further configured to establish an RF communications link via their respective RF communications ports based upon their mutual identification and perform a data transfer using the RF communications link.

10 12. The system of Claim 10 wherein at least one of the first and second mobile computing devices is a PID (personal information device).

13. The system of Claim 10 wherein at least one of the first and second mobile computing devices is a cellular telephone.

15 14. The system of Claim 10 wherein the RF communications link is a secure RF communications link recognizable only by the first and second devices output of the plurality of devices.

20 15. The system of Claim 10 wherein the RF communications link is compatible with a version of the Bluetooth specification.

16. The system of Claim 10 wherein the IR communications link is used to select a secure transmission method for the RF communications link.

25 17. The system of 16 wherein the secure transmission method is an encryption method for the RF communications link.

18. The system of Claim 10 wherein the IR communications link is in accordance with a version of the IrDA specification.

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